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ROUTER
POWX093

1 APPLICATION

Milling of holes, slots, edges and tenors (dovetail joints). All other uses are expressly excluded.
It is not designed for commercial use.

WARNING! Read this manual and general safety instructions carefully before using the appliance, for your own safety. Your power tool should only be passed on together with these instructions.

2 DESCRIPTION (FIG A)

1. Motor housing.
2. Fixing screw for depth stop
3. On/off switch
4. Carbon brush cover
5. Spindle lock
6. Handle
7. Fixing screw for parallel stop
8. Depth stop guide
9. Depth stop scale
10. Depth stop
11. Distance scale
12. Depth stop fixing lever
13. Culling base
14. Dust extraction
15. Parallel stop
16. Fine adjustment
17. Cutter guide plate
18. Wrench
19. Depth stop setting
20. Cutter chuck
21. Circle cutting accessories
22. Colet chucks
23. Cutler heads
24. Speed setting
25. Adjustment dimension
26. Safety lock

3 PACKAGE CONTENT LIST

- Remove all packing materials
- Remove remaining packaging and transit supports (if existing)
- Check the completeness of the packing content
- Check the appliance, the power cord, the power plug and all accessories for transportation damages.
- Keep the packaging materials as far as possible till the end of the warranty period. Dispose it into your local waste disposal system afterwards.

WARNING Packing materials are no toys! Children must not play with plastic bags! Danger of suffocation!

Parallel guide
Circle cutting accessories
Collet chuck
Dust extraction
12 cutting heads
Wrench
Carbon brushes

When parts are missing or damaged, please contact your dealer.

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4 SYMBOLS

In this manual and/or on the machine the following symbols are used:

	Denotes risk of personal injury or damage to the tool.		Wear ear guards and goggles
	Read manual before use		Wear a mask In dusty conditions
	In accordance with essential requirements of the European directive(s)		"Class II - The machine is double insulated; Earthing wire is therefore not necessary

5 GENERAL POWER TOOL SAFETY WARNINGS

Read all safety warnings and all instructions. Failure to follow all warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

5.1 Work area

- Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

5.2 Electrical safety

Always check that the power supply corresponds to the voltage on the rating plate.

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

5.3 Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used whenever conditions require will reduce personal injuries.
- Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

5.4 Power tool use and care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or sticking of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to stick and are easier to control.
- Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from intended could lead to a hazardous situation.

5.5 Service

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

6 SPECIFIC SAFETY WARNINGS

- Ensure that the power lead does not come into contact with the milling cutter.
- Ensure that the lifting rods are firmly seated on the housing and cannot work loose while working.
- Pull out plug before inserting milling cutter.

- Ensure that milling cutter is firmly clamped.
- Use only milling cutters for routers; never use e.g. milling cutters for drilling machines or stationary machines.
- Use only commercially available milling cutters for routers with a shank diameter 6 mm or 8 mm.
- Always use both hands to guide the tool.
- Never wedge the ON switch fast.
- Never reach into the milling zone while the tool is running.
- Feed only running milling cutters to the material.
- Note direction of cut - always move the cutter against the material.
- When work is finished, remove the milling cutter from the tool.
- Wood dust set up during work is harmful to health. Always work with dust collector operating.
- Wear protective goggles, ear protectors and, if necessary, breathing mask.
- Observe general safety regulations for handling and using electric tools..

7 OPERATION

7.1 Depth Stop

Locate the depth stop on the left-hand side of the cutting machine. This continuously adjustable stop is intended to limit the depth of the cut. Locate the fixing screw for the depth stop (1). Loosen it by turning it in anticlockwise direction. To move the depth stop up or down, turn the stop adjuster in clockwise or anticlockwise direction (2).

7.2 Locking lever for cutting machine body

When viewed from the front, the locking lever (3) is located at the rear on the left-hand side. The cutting machine body is spring-tensioned. Take care when releasing the locking lever. Grasp both handles and brace yourself before releasing the lever (4). Press downwards to allow the cutting machine body to move down. When you reduce the downward pressure, the springs force the cutting machine body back up into its highest position.
CAUTION: The housing of the machine is under spring tension. When you release the locking lever, it returns to its highest position..

7.3 Dust extraction outlet

You are advised to use the dust extraction outlet. You can purchase a suitable commercial vacuum cleaner or extract the dust via an extractor tube while the cutting machine is in operation. The outlet must project out of the rear of the machine (5). Two bolts and nuts are supplied to attach it.

Hold the extractor outlet in position and lay the cutting machine on its side. Push the long bolt through the machine base until it projects at the fastening point for the extractor outlet (6). Place the nut in the hexagon-shaped recess (7). Tighten the bolt with a suitable wrench and moderate force until the outlet is securely attached. Repeat the procedure at the other side.

CAUTION: Dust may cause respiratory problems. Certain laminated board materials are carcinogenic. After work, always remove all dust from the machine.

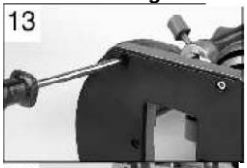
7.4 Assembly of parallel stop

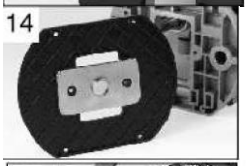
Locate the parallel stop and the guide rods. Push the guide rods into the casting and secure them with the adjusting screws (8). Inspect the machine base and the four securing points. Loosen the locking screws and push the guide rods into the machine base (9). The parallel stop is continuously adjustable and permits various parallel cuts.

7.5 Inserting and removing the chuck and cutting heads n

The cutting machine is supplied with a set of 12 mm cutting heads. There are a number of heads for cutting various profiles in wood. One example is a decorative edge on a skirting board. The machine is supplied with two chucks for 8 mm and 12 mm. Numerous cutting heads are available for different profiles.
Some heads are too large and leave no space for the dust-extraction system. In this casep a mask should be worn.
CAUTION: Ensure that the machine is not connected to the power supply. To insert the chuck, locate the spindle lock at the front of the machine. Press it down and hold it in this position. Using the wrench provided, loosen the chuck nut by turning in an anticlockwise direction (10). Remove the chuck and clean the spindle (11). Insert the other chuck in the spindle and screw on the nut finger tight. To insert a cutter head, loosen the chuck nut and insert the shaft of the cutter head (12). Ensure thai at least 20 mm or halt the length of the cutter-head shaft is inserted into the chuck. If insertion depth is less, the cutter head will be instable and may work loose. Press the spindle lock, hold it in position, and tighten the chuck nut. Repeatedly check the tightness of the nut during your work.
CAUTION: Handle the cutter heads carefully. They are sharp and may cause cuts.
CAUTION: Before switching the machine on, ensure that the chuck nuts are tight.

7.6 Cutter guide sleeve





The cutter guide sleeve is attached to the base of the machine and ensures that the machine can follow a certain cutting profile. Only certain sizes of cutter head can be used. The si2e is limited by the size of the hole in the cutter guide sleeve.

The dust-extraction system can be used with this accessory. To install the guide plate, lay the cutting machine on its side. Loosen and remove the two bolts for the dust-extraction system. Remove the four cross-head screws attaching the plastic base to the casting (13). Note the recess in the plastic base. Hold the guide plate with the sleeve to the outside and place it in the recess (14). Align the holes in the plastic base with the threaded holes in the casting and tighten the four cross-head screws (15). Re-install the dust-extraction components and secure it with bolts and nuts.

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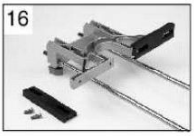
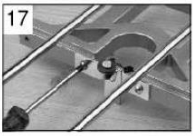
7.7 Profile accessories





The accessories can be used for work on profiled workpieces such as the head of a bed and if you wish to repeat the outside profile further towards the inside. Take the parallel guide. Loosen and remove the four cros>head screws attaching the plastic guides (16). Remove the plastic guides and keep them in a safe place for further use. Locate the profile accessories and position this casting (17). Secure it with two cross-head screws. Push the parallel guide into the machine base. Select the right cutter head for this job. Position the workpiece carefully and begin cutting (18).

7.8 Circle cutting accessories

Accessories for cutting
circles are also supplied. These allow you to cut perfect circles in workpieces. Attach one of the parallel guide rods in the machine base (19). Mount the circle-cutting accessory at the other end. You can attach this accessory to any position on the guide rod. Position the tip of the circle-cutting accessory at the centre of your circle. Press it slightly so that the tip is firmly in the wood. You can now cut the circle.

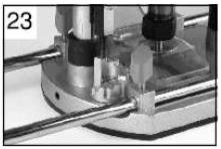
7.9 Setting the working depth

To set the cutting depth, release the plunger locking lever and press the cutter downwards until the desired depth is reached. Then re-lock the lever (Locking lever for cutting machine body). To set the cutter to a fixed depth, set the depth stop (20) and secure it with the knob (21).

7.10 Fine adjustment

When the approximate depth is set, you can make fine adjustments by means of the fine-adjustment knob {22). To adjust, turn it in clockwise or anticlockwise direction.

7.11 Cutting in serval operations



For cutting in depth and in stages, use the length-stop turret as an aid. Using the depth scale, set the desired depth to the lowest depth-stop position on the turret. Rotate the turret so that the highest point is under the depth stop and execute the first cut (23). Repeat the cut with the second-highest
setting and finally with the last setting. You can also use two positions if the desired depth is reached in two operations..

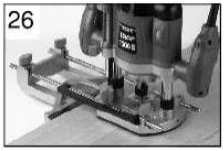
7.12 Switching on and off

Grasp the machine securely at the handles. When it is pointing in your direction, the start-stop button is located on the right handle (24}. Keeping the safety lock pressed, press the start-stop button. You do not have to keep the safety lock pressed as it remains in position automatically until you release the start-stop button again. To stop the machine, simply release the start-stop button and the motor stops..

7.13 Adjustable speed

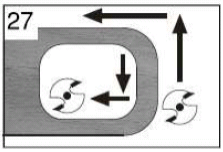
The speed setting is located at the front of th e h o usi ng (25). Turn the knob to increase or decrease the speed. The smaller the cutter head, the higher the speed.The larger the cutter head, the lower the speed. A cutter head which runs too fast causes scorching of the workpiece and leaves burnt marks.
CAUTION: Do not change the speed when the machine is working under load.

7.14 Using the parallel guide



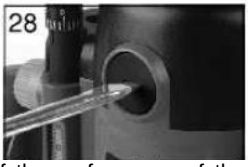
he parallel guide can be used for cutting parallel to the edge of the workpiece. Release the four screws securing the parallel guide and push them in so that the guide is at the desired distance from the cutter head. Tighten the four securing screws. Press the guide securely against the edge of the workpiece and execute the cut.
CAUTION: Abnormal vibrations may be due to a blunt cutter head.

7.15 Cutting direction



To prevent the cutter head from jumping and to obtain a good result, carry out exterior cuts in anticlockwise and interior cuts in clockwise direction (27).

7.16 Replacing the carbon brushes



If the performance of the machine is poor or excessive sparking is observed through the ventilation slots, the carbon brushes must be replaced. Remove the two covers of the brush housing (23) with a screwdriver. Remove the two worn brushes. Insert the new brushes (29), replace the covers and screw them into position. The new brushes may cause sparging until they have taken on the shape of the motor. Repeat the procedure at the other side.
CAUTION: The brushes must always be replaced in pairs.
CAUTION: Always disconnect the machine from the power supply before removing any electrical covers.

8 CLEANING AND MAINTENANCE

Attention !Before performing any work on the equipment, pull the power plug.

8.1 Cleaning

- Keep the ventilation slots of the machine clean to prevent overheating of the engine.
- Regularly clean the machine housing with a soft cloth, preferably after each use.
- Keep the ventilation slots free from dust and dirt.
- If the dirt does not come off use a soft cloth moistened with soapy water.

Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts.

9 TECHNICAL DATA

Voltage / frequency	230~240 V / 50 Hz
Power input	1500 W
No load speed	6000-26000 min^{-1}
Shaft diameter router	12mm
Protection class	II
Cable	3 m
Weight	4,9 kg

10 NOISE

Noise emission values measured according to relevant standard. (K=3)

Acoustic pressure level LpA	87 dB(A)
Acoustic power level LwA	98 dB(A)

ATTENTION! Wear hearing protection when sound pressure is over 85 dB(A).

aw (Vibration)	6,0 m/s^2	K = 1,5 m/s^2

11 SERVICE DEPARTMENT

- Damaged switches must be replaced by our after-sales service department.
- If the connecting cable (or mains plug) is damaged, it must be replaced by a particular connecting cable which is available from our service department. Replacement of the connecting cable must only be carried out by our service department (see last page) or by a qualified person (qualified electrician).

12 STORAGE

- Thoroughly clean the whole machine and its accessories.
- Store it out of the reach of children, in a stable and secure position, in a cool and dry place, avoid too high and too low temperatures.
- Protect it from exposure to direct sunlight. Keep it in the dark, if possible.
- Don't keep it in plastic bags to avoid humidity build-up.

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13 WARRANTY

- This product is warranted for a 36-month period effective from the date of purchase by the first user.
- This warranty covers all material or production flaws excluding : batteries, chargers, defective parts subject to normal wear & tear such as bearings, brushes, cables, and plugs, or accessories such as drills, drill bits, saw blades, etc. ; damage or defects resulting from maltreatment, accidents or alterations; nor the cost of transportation.
- Damage and/or defects resulting from inappropriate use also do not fall under the warranty provisions.
- We also disclaim all liability for any bodily injury resulting from inappropriate use of the tool.
- Repairs may only be carried out by an authorised customer service centre for Powerplus tools.
- You can always obtain more information at the number 00 32 3 292 92 90.
- Any transportation costs shall always be borne by the customer, unless agreed otherwise in writing.
- At the same time, no claim can be made on the warranty if the damage of the device is the result of negligent maintenance or overload.
- Definitely excluded from the warranty is damage resulting from fluid permeation, excessive dust penetration, intentional damage (on purpose or by gross carelessness), inappropriate usage (use for purposes for which the device is not suitable), incompetent usage (e.g. not following the instructions given in the manual), inexpert assembly, lightning strike, erroneus net voltage. This list is not exhaustive.
- Acceptance of claims under warranty can never lead to the prolongation of the warranty period nor commencement of a new warranty period in case of a device replacement.
- Devices or parts which are replaced under the warranty therefore remain the property of Varo NV.
- We reserve the right to reject a claim whenever the purchase cannot be verified or when it is clear that the product has not been properly maintained. (Clean ventilation slots, carbon brushes serviced regularly, etc.).
- Your purchase receipt must be kept as proof of date of purchase.
- Your appliance must be returned undismantled to your dealer in an acceptably clean state, (in its original blow-moulded case if applicable to the unit), accompanied by proof of purchase.

14 ENVIRONMENT

Should your appliance need replacement after extended use, do not discard it with the household rubbish but dispose of it in an environmentally safe way.
Waste produced by electrical machine items should not be handled like normal household rubbish. Please recycle where recycle facilities exist. Check with your Local Authority or retailer for recycling advice.

15 DECLARATION OF CONFORMITY

CE

VARO N.V. - Joseph Van Instraat 9 - BE2500 Lier - BELGIUM, declares that,
product : Router
trade mark : POWERplus
model : POWX093

is in conformity with the essential requirements and other relevant provisions of the applicable European Directives, based on the application of European harmonized standards. Any unauthorized modification of the apparatus voids this declaration.

European Directives (including, if applicable, their amendments up to the date of signature);
2011/65/EU
2004/108/EC
2006/42/EC

European harmonized standards (including, if applicable, their amendments up to the date of signature);
EN60745-1 : 2009
EN60745-2-17 : 2010
EN55014-1 : 2006
EN55014-2 : 1997
EN61000-3-2 : 2006
EN61000-3-3 : 2013

Keeper of the Technical Documentation : Philippe Vankerkhove, VARO – Vic. Van Rompuy N.V.

The undersigned acts on behalf of the company CEO,

Hugo Cuypers
Regulatory Affairs – Compliance Manager
Date: 17/03/2015

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